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*Admitted only in Maryland
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*Practice Limited to Federal Agencies

August 9, 2002

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AUG 12 2002

Technology Center 2600

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Commissioner for Patents
Washington, D.C. 20231

Art Unit 2681

Re: U.S. Non-Provisional Utility Patent Application
Appl. No. 09/550,644; Filed: April 14, 2000
For: **Method and System for Down-Converting an Electromagnetic
Signal, Transforms for Same, and Aperture Relationships**
Inventors: Sorrells *et al.*
Our Ref: 1744.0010009

Sir:

Transmitted herewith for appropriate action are the following documents:

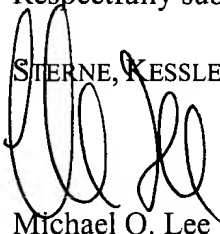
1. Second Supplemental Information Disclosure Statement;
2. Form PTO-1449 listing and accompanied by fifteen (15) documents; and
3. One return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents and returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents
August 9, 2002
Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,


STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael Q. Lee
Attorney for Applicants
Registration No. 35,239

Enclosures

MQL/VLB/sjc
SKGF_DC1:13485.1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

AUG 12 2002

Technology Center 2600

In re application of:

Sorrells *et al.*

Appl. No. 09/550,644

Filed: April 14, 2000

For: **Method and System for Down-Converting
an Electromagnetic Signal, Transforms
for Same, and Aperture Relationships**

Art Unit: 2681

Examiner: Gelin, J.

Atty. Docket: 1744.0010009

Second Supplemental Information Disclosure Statement

Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Applicants provide the following comments regarding the documents:

Document AH48 was cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/293,283, filed April 16, 1999, entitled "Integrated Frequency Translation and

Selectivity with a Variety of Filter Embodiments," directed to related subject matter. Also cited by said Examiner was U.S. Patent No. 5,126,682, which was cited in the present application in the Information Disclosure Statement, filed September 14, 2001, and U.S. Patent No. 6,049,706, which was cited in the present application in the Supplemental Information Disclosure Statement, filed May 14, 2002.

Document AG48 was cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/476,091, filed January 3, 2000, entitled "Image-Reject Down-Converter and Embodiments Thereof, Such as the Family Radio Service," directed to related subject matter. Also cited by said Examiner was U.S. Patent No. 5,901,349, which was cited in the present application in the Information Disclosure Statement, filed September 14, 2001.

Documents AI48 and AA49 were cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/567,963, filed May 10, 2000, entitled "Frequency Synthesizer Using Universal Frequency Translation Technology," directed to related subject matter.

Document AB49 is a co-owned patent which is directed to related technical subject matter.

Document AC49 was cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/289,675, filed January 24, 2000, entitled "Bar Code Scanner Using Universal Frequency Translation Technology for Up-Conversion and Down-Conversion," directed to related subject matter

Document AD49 is a copy of co-pending U.S. Patent Application Serial No. 09/293,095, filed April 16, 1999, entitled "Method and System for Down-Converting an Electromagnetic Signal Having Optimized Switch Structures," directed to related subject matter. In the copy provided, the claims are shown as allowed on July 1, 2002.

Document AE49 is a copy of co-pending U.S. Patent Application Serial No. 09/293,342, filed April 16, 1999, entitled "Method and System for Down-Converting an Electromagnetic Signal Including Resonant Structures for Enhanced Energy Transfer," directed to related subject matter. In the copy provided, the claims are shown as amended on February 4, 2002.

Document AF49 is a copy of co-pending U.S. Patent Application Serial No. 09/550,642, filed April 14, 2000, entitled "Method and System for Down-Converting an Electromagnetic Signal, and Transforms for Same," directed to related subject matter.

Documents AG49-AI49 and AA50-AC50 were cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/476,092, filed January 3, 2000, entitled "Analog Zero IF FM Decoder and Embodiments Thereof, Such as the Family Radio Service," directed to related subject matter

It is noted that some of these documents could be classified in more than one of the above categories.

This statement should not be construed as a representation that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

- ☒ 1. This Information Disclosure Statement is being filed before the mailing of a first action on the merits. No statement or fee is required.
- ☐ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.

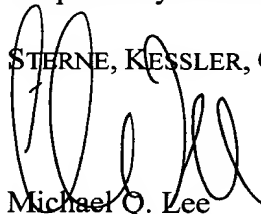
- ☐ a. I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
 - ☐ b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
 - ☐ c. Attached is our Check No. 32067 in the amount of _____ in payment of the fee under 37 C.F.R. § 1.17(p).
- ☐ 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. A separate Petition to the Group Director, requesting consideration of this Information Disclosure Statement, is concurrently submitted herewith, along with our Check No. _____ in the amount of \$ _____ in payment of the fee under 37 C.F.R. § 1.17(i).
- ☐ a. I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
 - ☐ b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

- ☐ 4. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.
- ☐ 5. Concise explanations of the relevance of the non-English language documents appears below:
- ☐ 6. Copies of the documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. _____, filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Michael Q. Lee
Attorney for Applicants
Registration No. 35,239

Date: 8/9/02

1100 New York Avenue, N.W.
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(202) 371-2600

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AG48	5,678,220	10/1997	Fournier	455	302
	AH48	5,926,065	07/1999	Wakai <i>et al.</i>	329	304
	AI48	3,622,885	11/1971	Oberdorf <i>et al.</i>	325	40

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION

DATE CONSIDERED

::ODMA\HODMA\SKGF DC1:42374:1

FORM PTO-1449

SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

 ATTY. DOCKET NO.
1744.0010009

 APPLICATION NO.
09/550,644

 APPLICANT
Sorrells et al.
RECEIVED
 FILING DATE
April 14, 2000

 GROUP
2681
AUG 1 2 2002**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	Technology SUB- CLASS	Center 2600 FILING DATE
	AA49	4,483,017	11/1984	Hampel <i>et al.</i>	382	17	
	AB49	6,421,534 B1	07/2002	Cook <i>et al.</i>	455	313	08/18/1999
	AC49	6,330,244 B1	12/2001	Swartz <i>et al.</i>	370	401	01/16/1998
	AD49	09/293,095		Sorrells <i>et al.</i>			04/16/1999
	AE49	09/293,342		Sorrells <i>et al.</i>			04/16/1999
	AF49	09/550,642		Sorrells <i>et al.</i>			04/14/2000
	AG49	4,384,357	05/1983	deBuda <i>et al.</i>	375	81	
	AH49	4,470,145	09/1984	Williams	375	1	
	AI49	5,600,680	02/1997	Mishima <i>et al.</i>	375	327	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

 ATTY. DOCKET NO.
1744.0010009

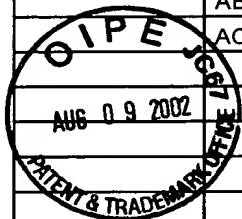
 APPLICATION NO.
09/550,644

 APPLICANT
Sorrells et al.

 FILING DATE
April 14, 2000

 GROUP
2681
RECEIVED**AUG 12 2002****U.S. PATENT DOCUMENTS****Technology Center 2600**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA50	5,606,731	02/1997	Pace et al.	455	260	
	AB50	5,870,670	02/1999	Ripley et al.	455	304	
	AC50	6,314,279 B1	11/2001	Mohindra	455	304	06/29/1998

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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